

Circle your final answers. Leave distance formula answers as entire or mixed radicals.
Show all work including formulas. Use a pencil.

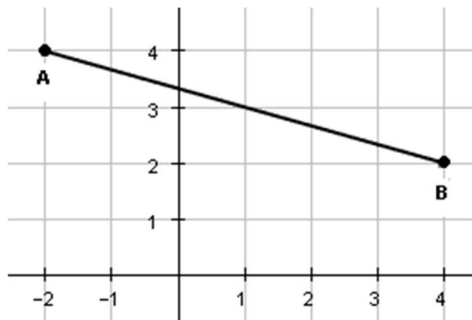
1. Find the midpoint of the line segment with given endpoints $(-3, -2)$ $(4, -6)$. /1

2. Find the distance of the line segment with given endpoints $(-3, -2)$ $(4, -6)$.

3. Find the other endpoint of the line segment with the given endpoint and midpoint. /2

Endpoint $(-4, 3)$. Midpoint $(3, -5)$

4. Find the midpoint and distance (length) of the segment in the graph. /3



$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \quad \text{mid.pt.} \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

1. $\left(\frac{1}{2}, -4\right)$ 2. $\sqrt{65}$ 3. $(10, -13)$
4. mid pt. $(1, 3)$ distance $2\sqrt{10}$